

CLAIM AMENDMENTS

Please cancel claims 5, 12, 17, and 23 without prejudice or disclaimer.

Please amend claims 1, 6-7, 11, 13, 18-19, and 24 as follows.

1. (Currently Amended) A network, comprising:
 - at least one transmitting device and at least one receiving device; and
 - a bus coupled to between the devices to exchange frames, wherein each frame is to include[[s]] a data structure, at least one control structure, and a clock structure, and wherein a rising edge of each frame is to indicate[[s]] the clock structure and a falling edge of each frame is to indicate[[s]] that a structure that follows the falling edge of the frame is the data structure or the command structure, and wherein any receiving device in a set of devices is coupled to use a clock structure to adjust each phase of one or more of the frames to synchronize the frames with each other,
 - wherein the falling edge of the frame occurring at one predetermined point in the control structure is to indicate a first command word and the falling edge of the frame occurring at a second predetermined point in the control structure is to indicate a secondary set of command words, and wherein the falling edge of the frame occurring at one predetermined point in the data structure indicates a first data word and the falling edge of the frame occurring at a second predetermined point in the data structure indicates a secondary set of data words.
2. (Original) The network of claim 1 wherein the data structure comprises a predetermined number of encoded data field bits.
3. (Original) The network of claim 1 wherein the command structure comprises a predetermined number of encoded command/control field bits.
4. (Original) The network of claim 1 wherein the falling edge of the frame occurring at one predetermined point in the control structure indicates a first command and the falling edge of the frame occurring at a second predetermined point in the control structure indicates a secondary set of commands.

5. (Canceled).

6. (Currently Amended) The network of claim 1 wherein ~~the falling edge of the frame occurring at one predetermined point in the control structure indicates a first command word and the falling edge of the frame occurring at a second predetermined point in the control structure indicates a secondary set of command words, and wherein the falling edge of the frame occurring at one predetermined point in the data structure indicates a first data word and the falling edge of the frame occurring at a second predetermined point in the data structure indicates a secondary set of data words, and wherein~~ the secondary set of command words is greater than the secondary set of data words.

7. (Currently Amended) A method for processing data in a network, comprising:

transmitting computer data signals embodied in carrier waves from a transmitting device to a receiving device, wherein each computer data signal is to include[[s]] a data structure embodied in an encoded frame, at least one control structure embodied in the encoded frame, and a clock structure embodied in the encoded frame, and wherein a rising edge of the encoded frame is to indicate[[s]] the clock structure and a falling edge of the frame is to indicate[[s]] whether what follows the falling edge of the frame is the data structure or the command structure; and

receiving the computer data signals at the receiving device and using the clock to adjust the phase of the frames to synchronize the frames with each other,

wherein transmitting computer data signals embodied in carrier waves from a transmitting device to a receiving device comprises:

dropping the falling edge of the frame at one predetermined point in the control structure to indicate a first command word and at a second predetermined point in the control structure to indicate a secondary set of command words; and

dropping the falling edge of the frame at one predetermined point in the data structure to indicate a first data word and at a second predetermined point in the data structure indicates a secondary set of data words.

8. (Original) The method of claim 7 wherein transmitting computer data signals embodied in carrier waves from a transmitting device to a receiving device comprises encoding the data structure with a predetermined number of data field bits.

9. (Original) The method of claim 7 wherein transmitting computer data signals embodied in carrier waves from a transmitting device to a receiving device comprises encoding the command structure with a predetermined number of command/control field bits.

10. (Original) The method of claim 7 wherein transmitting computer data signals embodied in carrier waves from a transmitting device to a receiving device comprises dropping the falling edge of the frame at one predetermined point in the control structure to indicate a first command and at a second predetermined point in the control structure to indicate a secondary set of commands.

11. (Currently Amended) The method of claim 7 wherein ~~transmitting computer data signals embodied in carrier waves from a transmitting device to a receiving device comprises:~~

~~dropping the falling edge of the frame at one predetermined point in the control structure to indicate a first command word and at a second predetermined point in the control structure to indicate a secondary set of command words; and~~

~~dropping the falling edge of the frame at one predetermined point in the data structure to indicate a first data word and at a second predetermined point in the data structure indicates a secondary set of data words, and wherein the secondary set of command words is greater than the secondary set of data words.~~

12. (Canceled).

13. (Currently Amended) A computer data signal embodied in a carrier wave for communicating between a first device and a second device, wherein the first and second devices communicate with each other over a bus, the computer data signal comprising:

a data structure embodied in a frame; and
at least one control structure embodied in the frame and preceding the data structure; and

a clock structure embodied in the frame, wherein a rising edge of the frame defines the clock structure, and wherein a falling edge of the frame is to indicate that what follows the falling edge of the frame is a data structure or a control structure,

wherein the falling edge of the frame occurring at one predetermined point in the control structure indicates a first command word and the falling edge of the frame occurring at a second predetermined point in the control structure indicates a secondary set of command words, and wherein the falling edge of the frame occurring at one predetermined point in the data structure indicates a first data word and the falling edge of the frame occurring at a second predetermined point in the data structure indicates a secondary set of data words.

14. (Original) The computer data signal of claim 13 wherein the data structure comprises a predetermined number of encoded data field bits.

15. (Original) The computer data signal of claim 13 wherein the command structure comprises a predetermined number of encoded command/control field bits.

16. (Original) The computer data signal of claim 13 wherein the falling edge of the frame occurring at one predetermined point in the control structure indicates a first command and the falling edge of the frame occurring at a second predetermined point in the control structure indicates a secondary set of commands.

17. (Canceled).

18. (Currently Amended) The computer data signal of claim 13 wherein ~~the falling edge of the frame occurring at one predetermined point in the control structure indicates a first command word and the falling edge of the frame occurring at a second predetermined point in the control structure indicates a secondary set of command words, and wherein the falling~~

~~edge of the frame occurring at one predetermined point in the data structure indicates a first data word and the falling edge of the frame occurring at a second predetermined point in the data structure indicates a secondary set of data words, and wherein the secondary set of command words is greater than the secondary set of data words.~~

19. (Currently Amended) A network, comprising:

at least one transmitting device; and

at least one receiving device coupled to the transmitting device to exchange frames, wherein each frame includes a data structure, at least one control structure, and a clock structure, and wherein a rising edge of the frame is to indicate[[s]] the clock structure and the falling edge of the frame is to indicate[[s]] that the structure that follows a falling edge of the frame is the data structure or the command structure, and wherein any receiving device is coupled to use the clock to adjust a phase of one or more of the frames to synchronize the frames with each other,

wherein the falling edge of the frame occurring at one predetermined point in the control structure indicates a first command word and the falling edge of the frame occurring at a second predetermined point in the control structure indicates a secondary set of command words, and wherein the falling edge of the frame occurring at one predetermined point in the data structure indicates a first data word and the falling edge of the frame occurring at a second predetermined point in the data structure indicates a secondary set of data words.

20. (Original) The network of claim 19 wherein the data structure comprises a predetermined number of encoded data field bits.

21. (Original) The network of claim 19 wherein the command structure comprises a predetermined number of encoded command/control field bits.

22. (Original) The network of claim 19 wherein the falling edge of the frame occurring at one predetermined point in the control structure indicates a first command and the falling

edge of the frame occurring at a second predetermined point in the control structure indicates a secondary set of commands.

23. (Canceled).

24. (Currently Amended) The network of claim 19 wherein ~~the falling edge of the frame occurring at one predetermined point in the control structure indicates a first command word and the falling edge of the frame occurring at a second predetermined point in the control structure indicates a secondary set of command words, and wherein the falling edge of the frame occurring at one predetermined point in the data structure indicates a first data word and the falling edge of the frame occurring at a second predetermined point in the data structure indicates a secondary set of data words, and wherein the secondary set of command words is greater than the secondary set of data words.~~